```
=> d his

     (FILE 'HOME' ENTERED AT 14:38:28 ON 29 SEP 2003)

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 14:38:40 ON
     29 SEP 2003
               SEA GLU LEU PRO OR GLU TYR PRO OR GLY VAL PRO
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                4   FILE AGRICOLA
                1   FILE ANABSTR
                2   FILE AQUASCI
                2   FILE BIOBUSINESS
               53   FILE BIOSIS
               34   FILE BIOTECHABS
               34   FILE BIOTECHDS
               25   FILE BIOTECHNO
                4   FILE CABA
                7   FILE CANCERLIT
               97   FILE CAPLUS
                2   FILE CEABA-VTB
                2   FILE DDFB
               19   FILE DDFU
               19   FILE DGENE
                2   FILE DRUGB
               20   FILE DRUGU
               43   FILE EMBASE
               12   FILE ESBIOBASE
                1   FILE FSTA
               92   FILE IFIPAT
                3   FILE JICST-EPLUS
               16   FILE LIFESCI
               54   FILE MEDLINE
               13   FILE PASCAL
               28   FILE SCISEARCH
                7   FILE TOXCENTER
             6803   FILE USPATFULL
              220   FILE USPAT2
               98   FILE WPIDS
               98   FILE WPINDEX
L1               QUE GLU LEU PRO OR GLU TYR PRO OR GLY VAL PRO
                 ---------
                 SEA L1 AND TRIPEP?
                 ---------
                  1   FILE AGRICOLA
                  2   FILE BIOSIS
                  1   FILE BIOTECHNO
                 12   FILE CAPLUS
                  1   FILE DDFB
                  1   FILE DRUGB
                  3   FILE EMBASE
                  4   FILE IFIPAT
                  2   FILE LIFESCI
                  4   FILE MEDLINE
                  2   FILE PASCAL
                  2   FILE SCISEARCH
                534   FILE USPATFULL
                 11   FILE USPAT2
                  1   FILE WPIDS
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                1   FILE WPINDEX
L2               QUE L1 AND TRIPEP?
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     FILE 'EMBASE, CAPLUS, MEDLINE' ENTERED AT 14:41:59 ON 29 SEP 2003
L3            19 S L2
L4            13 DUP REM L3 (6 DUPLICATES REMOVED)
L5             0 S L1 AND TRIPEP?(P)(PHARMACEUTICAL)
L6            13 S L4
L7            27 S (PYROGLU TYR PRO OR PYROGLU LEU PRO OR PYROGLY VAL PRO OR PGL
L8            12 DUP REM L7 (15 DUPLICATES REMOVED)
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L5 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:801278 CAPLUS
DN 138:395945
TI Lithium modulates expression of TRH receptors and TRH-related peptides in rat brain
AU Sattin, A.; Senanayake, S. S.; Pekary, A. E.
CS Research Service, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Neuroscience (Oxford, United Kingdom) (2002), 115(1), 263-273
CODEN: NRSCDN; ISSN: 0306-4522
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9, TRH **49760-92-1** 70650-88-3 **78058-07-8**
85344-77-0 85541-78-2 122018-91-1, Ps 4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lithium modulates expression of TRH receptors and TRH-related peptides in rat brain)

L5 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:794305 CAPLUS
DN 137:304792
TI Tripeptides for neurological and neurobehavior applications
IN Sattin, Albert; Pekary, Albert E.; Lloyd, Robert L.
PA USA
SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U. S. Ser. No. 169,657.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002151502	A1	20021017	US 2001-2878	20011114
	US 6475989	B1	20021105	US 1998-169657	19981009
PRAI	US 1997-62142P	P	19971009		
	US 1998-169657	A2	19981009		

OS MARPAT 137:304792
IT 34783-35-2 35703-20-9 **49760-92-1 78058-07-8**
85541-78-2
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tripeptides for neurol. and neurobehavior applications)

L5 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:762250 CAPLUS
DN 138:66876
TI Neuropharmacodynamic evaluation of the centrally active thyrotropin-releasing hormone analogue [Leu2]TRH and its chemical brain-targeting system
AU Prokai, Laszlo; Zharikova, Alevtina D.
CS McKnight Brain Institute, College of Pharmacy, Center for Drug Discovery, University of Florida, Gainesville, FL, 32610-0497, USA
SO Brain Research (2002), 952(2), 268-274
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD

L8 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1972:149260 CAPLUS
DN 76:149260
TI Hypothalamic hormones. 32. Role of the histadine moiety in the structure of the thyrotropin-releasing hormone
AU Sievertsson, Hans; Chang, Jaw-Kang; Folkers, Karl; Bowers, Cyril Y.
CS Inst. Biomed. Res., Univ. Texas, Austin, TX, USA
SO Journal of Medicinal Chemistry (1972), 15(3), 219-21
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
AB Pyroglutamylphenylalanylprolinamide (I) [34783-35-2] (pGlu-Phe-Pro-NH2), an analog of thyrotropin-releasing hormone (II) [24305-27-9] (pGlu-His-Pro-NH2) was prepd. by known methods and had 10% of the activity of II in mice. Characteristic of II, I is inactivated by serum and inhibited by triiodothyronine [6893-02-3]. I is apparently the most potent analog of II where one of its natural amino acids is replaced by another common natural amino acid. Both the .pi. electrons and the basicity of histidine may be functional for ultimate release of thyrotropin; release may consist of both complexing and an ionic mechanism involving a neg. charged group of the receptor site. PGlu-Trp-Pro-NH2 (III) and **pGlu-Tyr-Pro**-NH2 (IV) having both aromaticity and functionality in the 2nd amino acid were also prepd., but these analogs did not release TSH [9002-71-5] even at high doses. Pyroglutamylphenylalanyl-3-hydroxyprolinamide [34783-36-3] was prepd. and did not inhibit the activity of II; neither did III or IV.

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:540397 CAPLUS
DN 99:140397
TI Tripeptides and drugs containing them
IN Szirtes, Tamas; Kisfaludy, Lajos; Knoll, Jozsef; Knoll, Berta
PA Richter, Gedeon, Vegyeszeti Gyar Rt. , Hung.
SO Ger. Offen., 21 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3236484	A1	19830421	DE 1982-3236484	19821001
	HU 27706	O	19831028	HU 1981-2861	19811002
	HU 184481	B	19840828		
	FR 2513994	A1	19830408	FR 1982-16438	19820930
	FR 2513994	B1	19860801		
	GB 2109796	A1	19830608	GB 1982-27888	19820930
	GB 2109796	B2	19850130		
	CH 654841	A	19860314	CH 1982-5796	19821001
PRAI	HU 1981-2861		19811002		

OS CASREACT 99:140397
AB R-X-Pro-OH (R = pyroGlu, L-2-oxo-4-imidazolidinylcarbonyl, L-4-thiazolidinylcarbonyl; X = Gly, L-amino acid residue) were prepd. as appetite depressants. Thus, Boc-Leu-OH (I, Boc = Me3CO2C) was coupled with H-Pro-OMe.HCl by DCC in CH2Cl2 contg. Et3N to give Boc-Leu-Pro-OMe, which was sapond. to give Boc-Leu-Pro-OH which was Boc-deblocked by HCl to give H-Leu-Pro-OH.HCl (II) (85% yield based on I). Z-PyroGlu-OC6F5 (Z = PhCH2O2C) was coupled with II in CHCl3 contg. Et3N to give 73.5% Z-pyroGly-Leu-Pro-OH, which was Z-deblocked by hydrogenolysis over Pd/C to give 91% **pyroGlu-Leu-Pro**-OH (III). III at 300 .mu.g exhibited appetite depressant activity in rats.

L8 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:138155 CAPLUS
DN 98:138155
TI The selectivity of the anorectic effect of satietin. I. The ineffectiveness of satietin on behavioral tests
AU Knoll, Bertha; Knoll, Joseph
CS Dep. Pharmacol., Semmelweis Univ. Med., Budapest, 1445, Hung.
SO Polish Journal of Pharmacology and Pharmacy (1982), 34(1-3), 17-23
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English
AB The selectivity of satietin [72026-83-6] on some behavioral tests (unconditioned avoidance reaction, 1-way as well as 2-way conditioning, open-field, and consolidated conditioned reflex) was checked and compared to calcitonin [9007-12-9], TRH [24305-27-9] and **pGlu-Leu-Pro**-OH [85146-12-9]. Satietin seemed to be ineffective on all but the open-field behavioral test. Calcitonin and **pGlu-Leu-Pro**-OH increased open-field activity. Apparently satietin is an endogenous anorectic substance with a peculiar selectivity.

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L3 STRUCTURE UPLOADED

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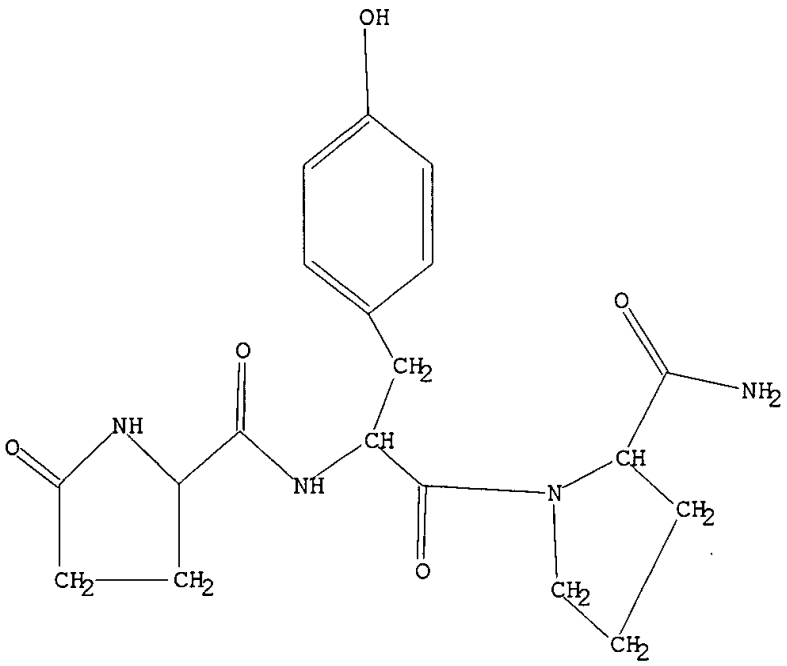
L3 STR



G1

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 4032 TO ITERATE

100.0% PROCESSED 4032 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

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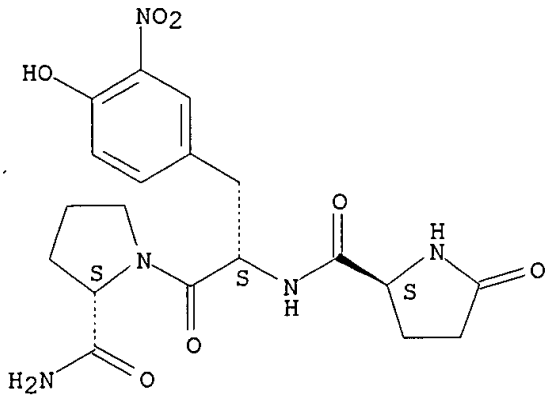
L4 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 100348-96-7 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-3-nitro-L-tyrosyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H23 N5 O7
SR CA
LC STN Files: CA, CAPLUS

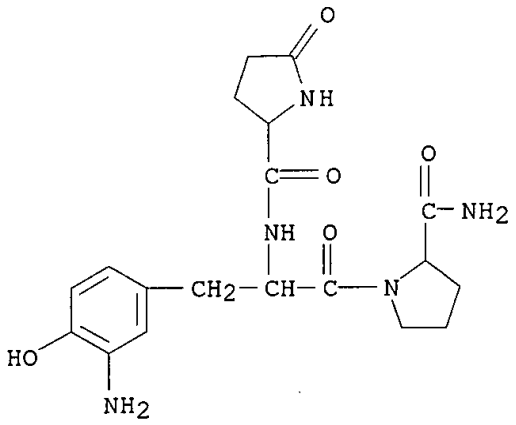
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

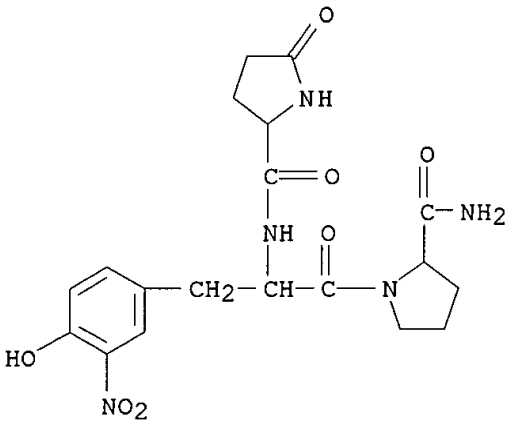
L4 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 92636-00-5 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-3-aminotyrosyl- (9CI) (CA INDEX NAME)
MF C19 H25 N5 O5
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 92635-99-9 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-3-nitrotyrosyl- (9CI) (CA INDEX NAME)
MF C19 H23 N5 O7
LC STN Files: CA, CAPLUS

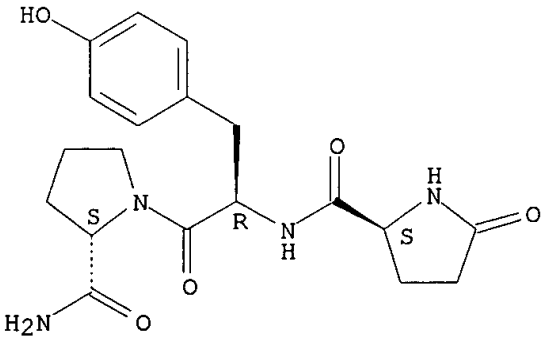


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 70650-88-3 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-D-tyrosyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H24 N4 O5
LC STN Files: CA, CAPLUS, MEDLINE

Absolute stereochemistry.

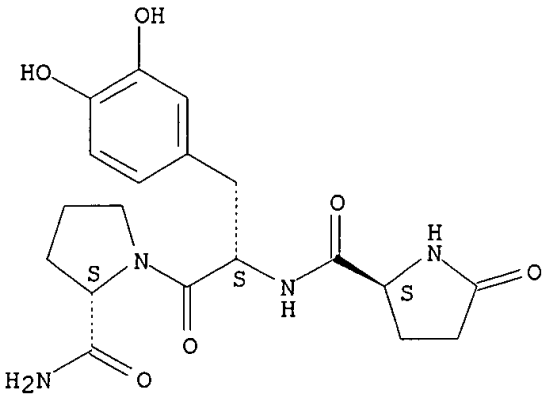


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 66067-52-5 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-3-hydroxy-L-tyrosyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H24 N4 O6
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

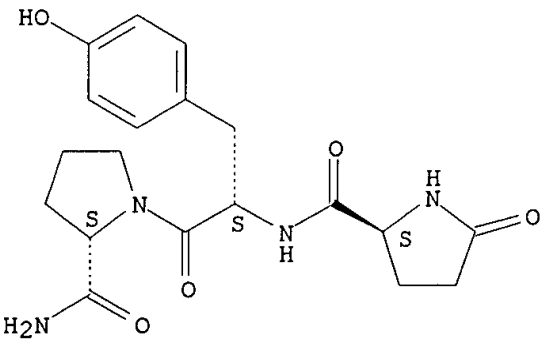


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 35703-20-9 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-L-tyrosyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: US20020151502 SEQID: 2 claimed sequence
CN L-Pyroglutamyl-L-tyrosine-L-prolinamide
CN Ro 10-2928
FS STEREOSEARCH
DR 81047-96-3
MF C19 H24 N4 O5
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



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15 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> s l4
L5 28 L4

=> d bib, hit 1-
YOU HAVE REQUESTED DATA FROM 28 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:801278 CAPLUS
DN 138:395945
TI Lithium modulates expression of TRH receptors and TRH-related peptides in rat brain
AU Sattin, A.; Senanayake, S. S.; Pekary, A. E.
CS Research Service, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Neuroscience (Oxford, United Kingdom) (2002), 115(1), 263-273
CODEN: NRSCDN; ISSN: 0306-4522
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9, TRH 49760-92-1 **70650-88-3** 78058-07-8
85344-77-0 85541-78-2 122018-91-1, Ps 4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lithium modulates expression of TRH receptors and TRH-related peptides in rat brain)

L5 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:794305 CAPLUS
DN 137:304792
TI Tripeptides for neurological and neurobehavior applications
IN Sattin, Albert; Pekary, Albert E.; Lloyd, Robert L.
PA USA
SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U. S. Ser. No. 169,657.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002151502	A1	20021017	US 2001-2878	20011114
	US 6475989	B1	20021105	US 1998-169657	19981009
PRAI	US 1997-62142P	P	19971009		
	US 1998-169657	A2	19981009		

OS MARPAT 137:304792
IT 34783-35-2 **35703-20-9** 49760-92-1 78058-07-8 85541-78-2
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tripeptides for neurol. and neurobehavior applications)

L5 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:666181 CAPLUS
DN 138:314306
TI Cocaine regulates TRH-related peptides in rat brain
AU Eugene Pekary, A.; Senanayake, Shayani; Sattin, Albert
CS Research Services, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Neurochemistry International (2002), 41(6), 415-428
CODEN: NEUIDS; ISSN: 0197-0186
PB Elsevier Science Ltd.
DT Journal

LA English
RE.CNT 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 50-36-2, Cocaine 24305-27-9 34783-35-2 **35703-20-9**
49760-92-1 78058-07-8 85541-78-2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cocaine regulates TRH-related peptides in rat brain)

L5 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:510938 CAPLUS
DN 138:163669
TI Pharmacologically distinct binding sites in rat brain for [3H]thyrotropin-releasing hormone (TRH) and [3H][3-methyl-histidine2]TRH
AU Kelly, Julie A.; Slator, Gillian R.; O'Boyle, Kathy M.
CS Department of Biochemistry, Trinity College, Dublin, 2, Ire.
SO Biochemical Pharmacology (2002), 63(12), 2197-2206
CODEN: BCPCA6; ISSN: 0006-2952
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9, TSH-releasing hormone 32467-84-8 32467-85-9 34367-55-0
34783-35-2, Phe2-TRH 35703-19-6 42294-01-9 42390-94-3 49760-92-1
52968-38-4 60063-88-9, TRH-degrading ectoenzyme 63155-77-1
67901-31-9 **70650-88-3** 78058-02-3 78058-04-5 78058-07-8
78058-24-9 85541-77-1 85541-78-2 141565-13-1 291752-42-6
291752-44-8 291752-45-9 473809-90-4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TRH and [methylhistidine]TRH distinct pharmacol. binding sites in rat brain and structure-activity relations therein)

L5 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:299863 CAPLUS
DN 137:135197
TI Role of TRH receptors as possible mediators of analeptic actions of TRH-like peptides
AU Hinkle, Patricia M.; Pekary, A. Eugene; Senanayaki, Shayani; Sattin, Albert
CS Department of Pharmacology and Physiology, University of Rochester School of Medicine and Dentistry, Rochester, NY, 14642, USA
SO Brain Research (2002), 935(1,2), 59-64
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 32467-85-9 34783-35-2, Phe2-TRH 49760-92-1 63155-77-1
70650-88-3 78058-07-8 78058-24-9 85541-78-2 141565-13-1
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(role of TRH receptors as possible mediators of analeptic actions of TRH-like peptides)

L5 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:618021 CAPLUS
DN 135:175414
TI TRH-like peptide derivatives as inhibitors of the TRH-degrading ectoenzyme
IN Kelly, Julie A.
PA The Provost, Fellows and Scholars of the College of the Holy and Undivided Trinity of Queen Elizabeth near Dublin, Ire.

SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001060843	A1	20010823	WO 2001-IE27	20010216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
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AU 2001034027	A5	20010827	AU 2001-34027	20010216
EP 1261624	A1	20021204	EP 2001-906065	20010216
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IE 2000-240	A	20000330		
WO 2001-IE27	W	20010216		

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RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24769-58-2P 32467-84-8P 32467-85-9P 34783-35-2P 35259-10-0P
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355803-10-0P 355803-11-1P 355803-12-2P 355803-13-3P 355803-14-4P
355803-15-5P 355803-16-6P 355803-17-7P 355803-18-8P 355803-19-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthetic peptides for inhibition of TSH-releasing hormone degrading ectoenzyme and therapeutic use of)

L5 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:504981 CAPLUS
DN 135:221461
TI Regulation of TRH and TRH-related peptides in rat brain by thyroid and steroid hormones
AU Pekary, A. E.; Sattin, A.
CS Research Services, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Peptides (New York, NY, United States) (2001), 22(7), 1161-1173
CODEN: PPTDD5; ISSN: 0196-9781
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 9002-71-5, Thyrotropin 9002-71-5D, Thyrotropin, derivs. 34783-35-2, Phe2-TRH **70650-88-3** 78058-07-8, L-Prolinamide, 5-oxo-L-prolyl-L-valyl 78058-30-7, L-Prolinamide, 5-oxo-L-prolyl-D-leucyl 85541-78-2
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(TRH and TRH-related peptides in rat brain regulation by thyroid and steroid hormones)

L5 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:394499 CAPLUS
DN 133:219335
TI Kinetic investigation of the specificity of porcine brain thyrotropin-releasing hormone-degrading ectoenzyme for thyrotropin-releasing hormone-like peptides
AU Kelly, Julie A.; Slator, Gillian R.; Tipton, Keith F.; Williams, Carvell H.; Bauer, Karl
CS Department of Biochemistry, Trinity College Dublin, Dublin, 2, Ire.
SO Journal of Biological Chemistry (2000), 275(22), 16746-16751
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9 24769-58-2 34783-35-2 **35703-20-9** 52968-38-4
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(substrate inhibitor; kinetic investigation of the specificity of porcine brain TSH-releasing hormone-degrading ectoenzyme for TSH-releasing hormone-like peptides)

L5 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:607411 CAPLUS
DN 117:207411
TI Isolation, and structural determination of a novel TRH-like tripeptide, pyroGlu-Tyr-Pro amide, from alfalfa
AU Lackey, David B.
CS Lab. Pep. Chem., Natl. Inst. Med. Res., London, NW7 1AA, UK
SO Journal of Biological Chemistry (1992), 267(25), 17508-11
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English
IT **35703-20-9P**
RL: PREP (Preparation)
(of alfalfa, isolation and characterization of, TSH-releasing hormone in relation to)

L5 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:240754 CAPLUS
DN 114:240754
TI Global minimum energy conformations of thyrotropin releasing hormone analogs by simulated annealing. II
AU Garduno-Juarez, Ramon; Perez-Neri, Faustino
CS Inst. Fis., Univ. Nac. Auton. Mexico, Cuernavaca, 62191, Mex.
SO Journal of Biomolecular Structure & Dynamics (1991), 8(4), 737-58
CODEN: JBSDD6; ISSN: 0739-1102
DT Journal
LA English
IT 22365-00-0 24305-27-9D, analogs 24769-58-2 27058-72-6 27058-74-8
28398-28-9 32467-84-8 32467-85-9 33217-51-5 34367-54-9
34367-55-0 35259-10-0 **35703-20-9** 37792-62-4 41880-59-5
42294-01-9 52208-06-7 60548-57-4
RL: BIOL (Biological study)
(energy conformations of, simulated annealing in study of, hydrogen bonds in relation to)

L5 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1986:142341 CAPLUS
DN 104:142341
TI [Tyr2]-TRH can be used as a ligand in radioimmunoassay for thyrotropin-releasing hormone
AU Cierniewski, Czeslaw S.; Poniatowski, Jacek
CS Inst. Physiol. Biochem., Med. Sch. Lodz, Lodz, 90-131, Pol.
SO IRCS Medical Science (1985), 13(12), 1211-12
CODEN: IMSCE2; ISSN: 0268-8220
DT Journal
LA English
AB [Tyr2]-TRH [**70650-88-3**] competitively inhibited 125I-labeled TRH [24305-27-9] binding by anti-TRH antibodies. [Tyr2]-TRH bound to anti-TRH antibodies with an apparent dissocn. const. of 3.2 .times. 10-9M as compared to 1.7 .times. 10-9M for TRH. Radioiodinated [Tyr2]-TRH may be useful as a ligand for the RIA of TRH.
IT **70650-88-3**
RL: BIOL (Biological study)
(as TRH radioimmunoassay ligand)

L5 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1986:82165 CAPLUS
DN 104:82165
TI Synthesis, receptor binding affinities and .alpha.-MSH releasing activities of TRH analogs
AU Aleksandrova, Maria; Przybylski, Jozef; Kruszynski, Marian; Tonon, Marie Christine; Vaudry, Hubert; Zboinska, Jolanta; Kupryszewski, Gotfryd
CS Inst. Exp. Endocrinol., Slovak Acad. Sci., Bratislava, 83306, Czech.
SO Polish Journal of Pharmacology and Pharmacy (1985), 37(2), 197-207
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English
AB Synthesis of 3 TRH [24305-27-9] analogs: [Dopa2]TRH [**66067-52-5**], nicotinyl-TRH [84356-50-3], and [L-3-nitrotyrosine2]-TRH [**100348-96-7**] were reported. These 3 and another 5 known TRH analogs, [Aad1Tca3]TRH [66537-55-1], D-histidine2-TRH [40600-90-6], D-proline3-TRH [50894-60-5], proline-NH-NH23-TRH [60548-59-6], and tyrosine2-TRH [**35703-20-9**], were studied in vitro for their binding activity to rat pituitary TRH receptors and .alpha.-MSH [37213-49-3]-releasing activity in the neurointermediate lobe of frogs. Competition of analogs for [3H]TRH binding to rat anterior pituitary membrane fraction was used. One of 10 tested analogs ([Aad1, Tca]3 TRH) was as potent as TRH in competing for high-affinity binding sites (dissocn. const. = 8.5 nM). The binding activity of diastereoisomers ([D-hisidine2]TRH and [D-proline3]TRH) was reduced as well as that of analog [proline-NH-NH23]TRH. The rest of the analogs were inactive. The binding activities were in good accordance with .alpha.-MSH releasing activities.
IT 24305-27-9DP, analogs **66067-52-5P** 84356-50-3P **100348-96-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and .alpha.-MSH-releasing activity and receptor binding of, in pituitary gland)
IT 24305-27-9 **35703-20-9** 40600-90-6 50894-60-5 60548-59-6 66537-55-1
RL: BIOL (Biological study)
(.alpha.-MSH-releasing activity and receptor binding of, in pituitary gland)

L5 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1984:592487 CAPLUS
DN 101:192487

TI Pyroglutamyl(3'-aminotyrosyl)prolinamide
IN Lipkowski, Andrzej; Drabarek, Stefania
PA Uniwersytet Warszawski, Pol.
SO Pol., 3 pp.
CODEN: POXXA7
DT Patent
LA Polish
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI PL 123019	B1	19820930	PL 1979-216083	19790604
PRAI PL 1979-216083		19790604		

IT **92635-99-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrogenation of)
IT **92636-00-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L5 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:499485 CAPLUS
DN 99:99485
TI Coordination ability of the thyrotropin releasing factor, L-pyroglutamyl-L-histidyl-L-prolinamide(TRF). III. Copper(II) and nickel(II) complexes with TRF and its di- and tripeptide analogs
AU Formicka-Kozlowska, Grazyna; Bezer, Mary; Pettit, Leslie D.
CS Inst. Chem., Univ. Wroclaw, Wroclaw, Pol.
SO Journal of Inorganic Biochemistry (1983), 18(4), 335-47
CODEN: JIBIDJ; ISSN: 0162-0134
DT Journal
LA English
IT 7440-02-0D, TRF complexes 7440-50-8D, TRF complexes 21282-13-3D, copper and nickel complexes 24305-27-9D, copper and nickel complexes 32159-22-1D, copper and nickel complexes **35703-20-9D**, copper and nickel complexes 40600-90-6D, copper and nickel complexes 77220-97-4D, copper and nickel complexes 77795-26-7D, copper and nickel complexes
RL: PRP (Properties)
(formation consts. of)

L5 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:50834 CAPLUS
DN 98:50834
TI Role of TRH in the control of melanotropin release in amphibia
AU Leroux, P.; Tonon, M. C.; Stoeckel, M. E.; Jegou, S.; Leboulenger, F.; Delarue, C.; Perroteau, I.; Netchitailo, P.; Kupryszewski, G.; Vaudry, H.
CS Groupe Rech. Endocrinol. Mol., Univ. Rouen, Mont-Saint-Aignan, 76130, Fr.
SO Thyrotropin-Releasing Horm. (1983), 229-40. Editor(s): Griffiths, E. C.; Bennett, G. W. Publisher: Raven, New York, N. Y.
CODEN: 48ZRAE
DT Conference
LA English
IT 71-00-1, biological studies 98-79-3 7531-52-4 32467-84-8 40600-90-6 42294-01-9 52208-06-7 53109-32-3 58107-79-2 60548-59-6 63155-83-9 66537-55-1 **70650-88-3** 74391-68-7 74391-71-2 77220-97-4 84356-50-3 84356-51-4
RL: BIOL (Biological study)
(pituitary hormone release response to, in amphibia and mammals, structure in relation to)

L5 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1982:174593 CAPLUS

DN 96:174593
TI In vitro study of frog (Rana ridibunda Pallas) neurointermediate lobe secretion by use of a simplified perifusion system. I. Effect of TRH analogs upon .alpha.-MSH release
AU Leroux, P.; Tonon, M. C.; Jegou, S.; Leboulenger, F.; Delarue, C.; Perroteau, I.; Netchitailo, P.; Kupryszewski, G.; Vaudry, H.
CS Groupe Rech. Endocrinol. Mol., Fac. Sci., Mont-Saint-Aignan, 76130, Fr.
SO General and Comparative Endocrinology (1982), 46(1), 13-23
CODEN: GCENA5; ISSN: 0016-6480
DT Journal
LA English
AB Mammalian TRH [24305-27-9] stimulated .alpha.-MSH [37213-49-3] secretion in amphibia. Using a perifusion system technique, the stereochem. requirements for hormone-receptor interaction of frog melanotrophs were compared with mammalian thyrotrophs and mammatrophs. Of all the analogs tested, only L-N-(2-oxopiperidine-6-yl-carbonyl)-histidylthiazolidine-4-carboxamide (MK-771) [66537-55-1] was equipotent with TRH. All analogs which were known to be TRH agonists in mammals (e.g., [Pic]3-TRH [55720-46-2] and [Pro-hydrazide]3-TRH [60548-59-6]) were also relatively active on .alpha.-MSH release. Seven analogs were totally inactive on both mammalian pars distalis and frog pars intermedia. The discrepancies concerned only 2 TRH analogs in which the histidine moiety has been altered ([Tyr]2-TRH [**70650-88-3**] and [Lys]2-TRH [32467-84-8]). The biol. potencies of these analogs were 17 and 8% on .alpha.-MSH release, whereas both mols. were devoid of activity in mammals.
IT 71-00-1, biological studies 98-79-3 7531-52-4 24305-27-9 24305-27-9D, analogs 28398-28-9 32467-84-8 40600-90-6 42294-01-9 52208-06-7 53109-32-3 55720-46-2 58107-79-2 60548-59-6 63155-83-9 66537-55-1 **70650-88-3** 74391-68-7 74391-71-2 80600-94-8 80600-95-9
RL: BIOL (Biological study)
(.alpha.-MSH release by frog response to, structure in relation to)

L5 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1982:136283 CAPLUS
DN 96:136283
TI Behavioral effects of central and peripheral injection of various analogs and metabolites of thyrotropin releasing hormone (TRH)
AU Heal, D. J.; Sabbagh, A.; Youdim, M. B. H.; Green, A. R.
CS MRC Unit, Radcliffe Infirm., Oxford, OX2 6HE, UK
SO Neuropharmacology (1981), 20(10), 947-57
CODEN: NEPHBW; ISSN: 0028-3908
DT Journal
LA English
AB The behavioral effects in rats of 2 biol. stable TRH [24305-27-9] analogs, CG3509 [62305-86-6] and CG3703 [62305-91-3], (both 5 .mu.g bilaterally into the nucleus accumbens) were partially inhibited by prior injection of haloperidol 2.5 .mu.g bilaterally into the same site; destruction of the presynaptic dopamine nerve terminals in the nucleus reduced, but did not abolish responses to CG3509 and CG3703. The behavioral responses to TRH (10 .mu.g bilaterally) were increased by injection in combination with bacitracin (4 .mu.g bilaterally). Injection into the nucleus accumbens of tranylcypromine-pretreated rats of Ro 10-8802 [81047-98-5] or Ro 10-9430 [81047-97-4] (both 10 .mu.g bilaterally) caused TRH-like behavioral changes and increased locomotor activity, whereas Ro 10-2928 [**81047-96-3**] or histidyl proline diketopiperazine [53109-32-3] (both 10 .mu.g bilaterally) were without effect. CG3509 or CG3703 (both 10 mg/kg i.p.) produced locomotor and behavioral changes similar to those obsd. after central infection of TRH or the analogs; these effects were potentiated by tranylcypromine pretreatment, whereas haloperidol or chlorpromazine abolished the effects of the analogs. Like TRH, peripheral injection of 5 mg/kg of either

analog to unilateral nigrostriatal lesioned rats did not induce circling. Injection of 1 mg/kg of either analog 2 min before pentobarbital (40 mg/kg) prolonged time to loss of righting reflex and reduced sleeping time. Thus, the TRH CG3509 and CG3703 selectively affect dopamine [51-61-6] function in the nucleus accumbens, but not the nucleus caudatus, and have prolonged action because of resistance to enzyme degrdn., and do not mimic all the actions of the parent compd.

IT **35703-20-9** 53109-32-3 62305-86-6 62305-91-3 67543-18-4 81047-97-4
RL: BIOL (Biological study)
(behavioral effects of central and peripheral injection of, mechanism of, dopamine in relation to)

L5 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1981:185784 CAPLUS
DN 94:185784
TI The effect of thyroliberin and some of its analogs on the hind limb flexor reflex in the spinal rat
AU Pawlowski, Leszek; Ruczynska, Joanna; Przegalinski, Edmund
CS Inst. Pharmacol., Pol. Acad. Sci., Krakow, 31-343, Pol.
SO Polish Journal of Pharmacology and Pharmacy (1980), 32(4), 539-50
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English
AB TRH [24305-27-9] (0.5-4 mg/kg) enhanced the flexor reflex (increase in the reflex amplitude) in a dose-dependent way. A similar though weaker effect was exerted by an analog, pyro-Glu-His-Pro-NH-NH2.2HCl [77220-96-3] (2-8 mg/kg). The other analogs, pyro-Glu-Tyr-Pro-NH2 [**35703-20-9**] and picolinyl-His-Pro-NH2 [77220-97-4] were inactive in this respect, TRH (0.5-8 mg/kg) produced no effect on the neuromuscular transmission. Serotoninolytics (metergoline, pizotifen) and noradrenolytics (phenoxybenzamine, haloperidol) did not counteract the TRH-induced stimulation of the reflex. However, THR enhanced the stimulating effect of LSD [50-37-3] and, esp. that of clonidine-HCl [4205-91-8] on the flexor reflex. The stimulatory action of TRH on the flexor reflex is apparently not connected with its direct effect either on the serotininergic or noradrenergic transmission. TRH evidently increases the reactivity of central noradrenaline receptors and, to a smaller extent, that of the serotonin receptors.

IT 24305-27-9 **35703-20-9** 77220-96-3 77220-97-4
RL: BIOL (Biological study)
(flexor reflex response to)

L5 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:483786 CAPLUS
DN 91:83786
TI Effect of peptides on brain monoamines and on gross behavior
AU Carlsson, Arvid; Garcia-Sevilla, J. A.; Magnusson, Tor
CS Dep. Pharmacol., Univ. Goeteborg, Goeteborg, 400 33, Swed.
SO Nobel Symposium (1979), Volume Date 1978, 42(Cent. Regul. Endocr. Syst.), 223-38
CODEN: NOSYBW; ISSN: 0346-8313
DT Journal
LA English
AB Several neuropeptides as well as synthetic analogs were injected intracerebroventricularly to conscious rats and effects on the synthesis and utilization of monoamines in the brain and on gross behavior and motor activity were recorded. Different groups of peptides induced characteristic behavioral patterns, the specificity of which was underlined by the influence of even small changes in chem. structure. Naloxone prevented the effects of opioid peptides but rather enhanced the motor stimulation induced by substance P [33507-63-0]. Several peptides

stimulated the turnover of monoamines in the brain. The importance of peptidase [9031-96-3] activity was demonstrated by the rapid formation of dopa [59-92-7], dopamine [51-61-6], and noradrenaline [51-41-2] from [dopa2]-TSH-releasing hormone [**66067-52-5**].

IT **66067-52-5**
RL: BIOL (Biological study)
(monoamines of brain formation from, peptidase in relation to)

L5 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:450012 CAPLUS
DN 91:50012
TI Thyrotropin-releasing hormone stimulates release of arginine vasopressin and oxytocin in vivo
AU Weitzman, Richard E.; Firemark, Hugh M.; Glatz, Theodore H.; Fisher, Delbert A.
CS Med. Cent., Univ. California, Torrance, CA, 90024, USA
SO Endocrinology (1979), 104(4), 904-7
CODEN: ENDOAO; ISSN: 0013-7227
DT Journal
LA English
AB The effects of TSH-releasing hormone (TRH) [24305-27-9] upon neurohypophyseal hormone release were studied in conscious rabbits. I.v. infusion of 250 nm/kg TRH had no effect on either arginine vasopressin (AVP) [113-79-1] or oxytocin (OT) [50-56-6] release, but a 5-fold greater dose led to increases in plasma levels of both AVP and OT and behavioral arousal. Intraventricular injection of 3 nm TRH produced elevations of both plasma AVP and OT, with even greater effects on behavior than after i.v. infusion. The maximal hormone response to intraventricular injection was obsd. considerably earlier than that for i.v. injection and the response occurred after an almost 1000-fold lower dose of TRH. Neither artificial cerebrospinal fluid vehicle nor the inactive analog. D-Tyrosine2 TRH [**70650-88-3**] had any effect on neurohypophyseal hormone release or on behavior. MK-771 [L-N-(2-oxopiperidin-6-yl-carbonyl)-L-histidyl-L-thiazolidine-4-carboxamide] [57863-90-8], a TRH analog with enhanced central nervous system effects, resulted in AVP and OT release comparable to equimolar doses of TRH. TRH stimulates release of both AVP and OT after both intraventricular and i.v. injection, and these effects may be independent of behavioral activation.

IT **70650-88-3**
RL: BIOL (Biological study)
(oxytocin and vasopressin release in relation to)

L5 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:122032 CAPLUS
DN 90:122032
TI Studies of the thyrotropin-releasing factor. II. Conformations of TRF and some analogs
AU Flurry, R. L., Jr.; Abdulnur, S. F.; Bopp, J. M., Jr.
CS Dep. Chem., Univ. New Orleans, Orleans, LA, USA
SO Biopolymers (1978), 17(11), 2679-87
CODEN: BIPMAA; ISSN: 0006-3525
DT Journal
LA English
IT 24305-27-9 34367-54-9 34367-55-0 34783-35-2 **35703-20-9**
RL: PRP (Properties)
(conformation of, calcn. of)

L5 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1978:592964 CAPLUS
DN 89:192964
TI Characterization of a pyroglutamate aminopeptidase from rat serum that

degrades thyrotropin-releasing hormone
AU Taylor, William L.; Dixon, Jack E.
CS Dep. Biochem., Purdue Univ., West Lafayette, IN, USA
SO Journal of Biological Chemistry (1978), 253(19), 6934-40
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English
IT 33515-09-2 **66067-52-5** 68141-52-6
RL: BIOL (Biological study)
(thyrotropin-releasing hormone pyroglutamate aminopeptidase inhibition by)

L5 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1978:557797 CAPLUS
DN 89:157797
TI Modification of pentobarbital-induced sedation by natural and synthetic peptides
AU Bissette, G.; Nemeroff, C. B.; Loosen, P. T.; Breese, G. R.; Burnett, G. B.; Lipton, M. A.; Prange, A. J., Jr.
CS Dep. Psychiatry, Univ. North Carolina, Chapel Hill, NC, USA
SO Neuropharmacology (1978), 17(4-5), 229-37
CODEN: NEPHBW; ISSN: 0028-3908
DT Journal
LA English
IT 58-82-2 70-18-8, biological studies 305-84-0 484-42-4 584-85-0 2002-44-0 3650-73-5 4037-01-8 4474-91-3 9004-10-8, biological studies 9061-27-2 9063-57-4 14317-68-1 16960-16-0 24057-83-8 24305-27-9 24769-58-2 27058-73-7 27058-75-9 28398-28-9 32467-84-8 33217-51-5 33507-63-0 33515-09-2 34367-54-9 35748-51-7 38916-34-6 39379-15-2 49557-75-7 50842-42-7 50913-82-1 54799-98-3 55536-95-3 55536-96-4 56767-30-7 58569-55-4 62802-86-2 64757-00-2 **66067-52-5** 67901-31-9 67901-34-2 67931-09-3 67954-43-2 67954-44-3 69980-17-2
RL: BIOL (Biological study)
(pentobarbital-induced sedation response to)

L5 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1978:164610 CAPLUS
DN 88:164610
TI TRH analog antagonists
AU Bowers, C. Y.; Sievertsson, H.; Chang, J.; Stewart, J.; Castensson, S.; Bjorkman, S.; Chang, D.; Folkers, K.
CS Sch. Med., Tulane Univ., New Orleans, LA, USA
SO International Congress Series (1976), 378(Thyroid Res.), 1-4
CODEN: EXMDA4; ISSN: 0531-5131
DT Journal
LA English
AB In rat pituitary glands in vitro, chlorambucil1-TSH-releasing hormone (I) [66067-48-9] and chlorambucil1-Leu2,Leu3,D-ala6-LH-releasing hormone [54301-33-6] had in vitro agonist activity for TSH-releasing hormone (II) [24305-27-9]-induced TSH release. I (1, 3, and 10 .mu.g/mL medium) added only at the 1st incubation h inhibited the in vitro TSH response to II during the 5th and 6th incubation h, but it had no effect on the concomitant LH [9002-67-9] and FSH [9002-68-0] release induced by LH-releasing hormone [9034-40-6]. Apparently, I can specifically inhibit the in vitro response of TSH to II, and this effect may represent a receptor site irreversible type of inhibition. The analog cyclopentylcarbonyl-3-N-methyl-His-pyrrolidine [66067-49-0] at a dosage 30,000 that of II had weak antagonist activity for II-induced TSH release. Cyclopentylcarbonyl-.beta.-2-thienylalaninepyrrolidine [57519-05-8] inhibited the II-induced TSH release when about 10,000 times more of this analog than of II was added to the medium. This analog also had TSH

agonist activity at a dosage of 100 .mu.g/mL medium. 2-Dopa-TSH-releasing hormone [**66067-52-5**] had in vitro antagonistic activity for II-induced TSH release. The above compd. had more antagonistic activity than pyroGlu-dopa-PheNH2 [66067-50-3] or dopa-Pro-NH2 [66067-51-4], and its antagonistic activity was dose-related whereas those of the others were not. PyroGlu-dopa-Pro-NH2 had only slight but definite agonist activity at a dosage of 100 .mu.g/mL medium. Analogs of II which inhibit the TSH response to II may become clin. useful therapeutic agents.

IT 57519-05-8 66067-49-0 66067-50-3 66067-51-4 **66067-52-5**
RL: BIOL (Biological study)
(TSH-releasing hormone antagonism by)

L5 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1976:572017 CAPLUS
DN 85:172017
TI Structure-biological activity relations on thyrotropin and luteinizing hormone releasing factor analogs
AU Monahan, M.; Rivier, J.; Vale, W.; Ling, N.; Grant, G.; Amoss, M.; Guillemin, Roger; Burgus, R.; Nicolaides, E.; Rebstock, M.
CS Salk Inst., La Jolla, CA, USA
SO Chem. Biol. Pept., Proc. Am. Pept. Symp., 3rd (1972), 601-8. Editor(s): Meienhofer, Johannes. Publisher: Ann Arbor Sci., Ann Arbor, Mich.
CODEN: 33RCAJ
DT Conference
LA English
IT 22365-00-0 24769-58-2 27058-72-6 27058-74-8 32467-84-8
32467-85-9 34367-54-9 34367-55-0 35259-10-0 **35703-20-9**
37553-43-8 37792-62-4 38982-96-6 38982-97-7 38982-98-8
41880-59-5 41880-61-9 41880-65-3 52208-06-7 54799-95-0
54799-99-4 55720-45-1 60548-54-1 60548-55-2 60548-56-3
60548-57-4 60548-58-5 60548-59-6
RL: BIOL (Biological study)
(TSH release by)

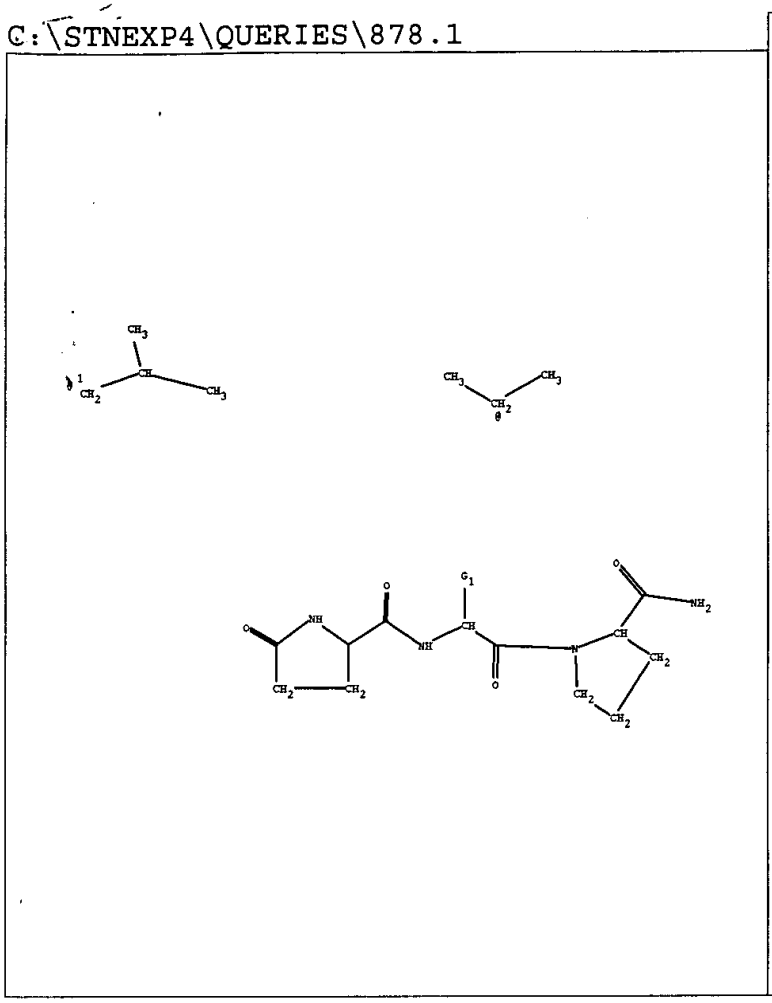
L5 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:401172 CAPLUS
DN 83:1172
TI Thyrotropin releasing hormone and the release of prolactin
AU Bowers, C. Y.; Friesen, H. G.; Folkers, K.
CS Sch. Med., Tulane Univ., New Orleans, LA, USA
SO Biol. Rhythms Neuroendocrine Act. (1974), 102-18. Editor(s): Kawakami, Masazumi. Publisher: Igaki Shoin Ltd., Tokyo, Japan.
CODEN: 29XUAW
DT Conference
LA English
IT 71-00-1, biological studies 98-79-3 147-85-3, biological studies
17528-81-3 24305-27-9 24769-58-2 27058-72-6 27058-73-7
27058-74-8 33208-87-6 33217-51-5 34783-35-2 34783-36-3
35703-20-9 35937-15-6 35937-18-9 37553-43-8 37666-99-2
41880-59-5 42294-01-9 52208-05-6 55204-61-0 55204-62-1
55204-63-2 55204-64-3 55204-65-4 55204-66-5 55250-13-0
55253-33-3
RL: BIOL (Biological study)
(prolactin and TSH release response to)

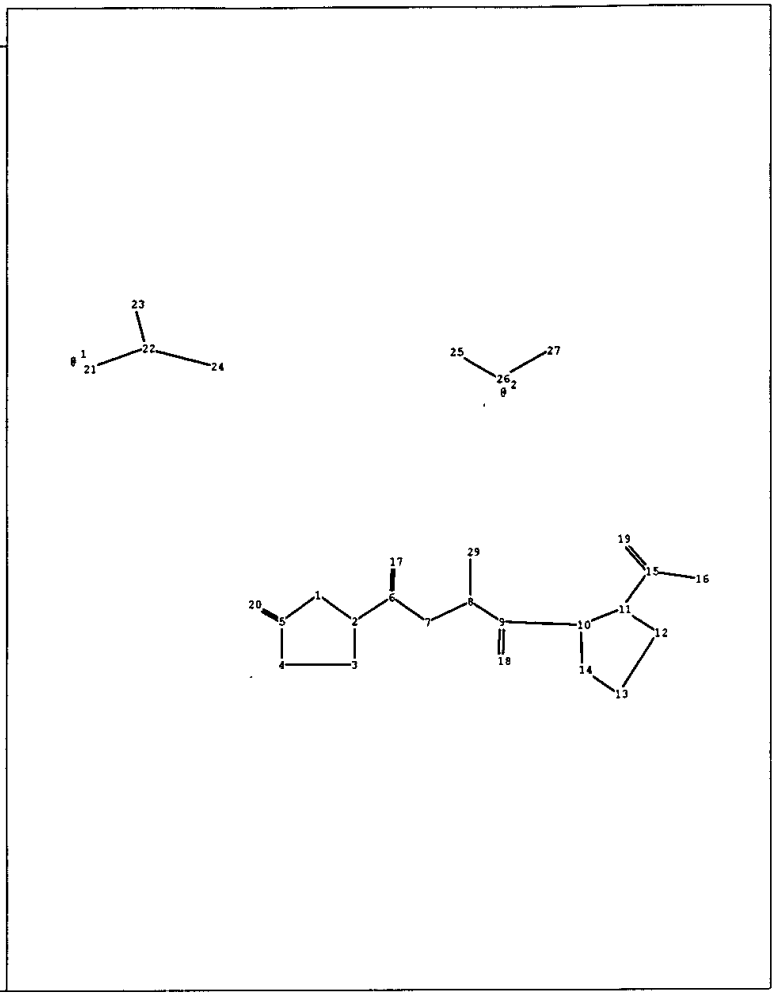
L5 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1972:443498 CAPLUS
DN 77:43498
TI Synthetic thyrotropin-releasing factor analogs. 3. Effect of replacement or modification of histidine residue on biological activity
AU Rivier, J.; Vale, W.; Monahan, M.; Ling, N.; Burgus, R.
CS Salk Inst., San Diego, CA, USA

SO Journal of Medicinal Chemistry (1972), 15(5), 479-82
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
IT 25575-88-6 32467-84-8 32467-85-9 34367-54-9 34367-55-0
35259-10-0 **35703-20-9** 37792-62-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(biol. activity of)

L5 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1972:149260 CAPLUS
DN 76:149260
TI Hypothalamic hormones. 32. Role of the histadine moiety in the structure of the thyrotropin-releasing hormone
AU Sievertsson, Hans; Chang, Jaw-Kang; Folkers, Karl; Bowers, Cyril Y.
CS Inst. Biomed. Res., Univ. Texas, Austin, TX, USA
SO Journal of Medicinal Chemistry (1972), 15(3), 219-21
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
IT 24305-27-9 34783-35-2 34783-36-3 35703-19-6 **35703-20-9**
RL: BIOL (Biological study)
(TSH release by)

C:\STNEXP4\QUERIES\878.1





chain nodes :
6 7 8 9 15 16 17 18 19 20 21 22 23 24 25 26 27 29
ring nodes :
1 2 3 4 5 10 11 12 13 14
chain bonds :
2-6 5-20 6-7 6-17 7-8 8-9 8-29 9-18 9-10 11-15 15-16 15-19
21-22 22-23 22-24 25-26 26-27
ring bonds :
1-2 1-5 2-3 3-4 4-5 10-14 10-11 11-12 12-13 13-14
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 5-20 6-7 6-17 7-8 8-29 9-18 9-10 10-14
10-11 11-12 12-13 13-14 15-16 15-19
exact bonds :
2-6 8-9 11-15 21-22 22-23 22-24 25-26 26-27

G1:[*1],[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS
17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS
24:CLASS 25:CLASS 26:CLASS 27:CLASS 29:CLASS

=>
Uploading 878.1

L3 STRUCTURE UPLOADED

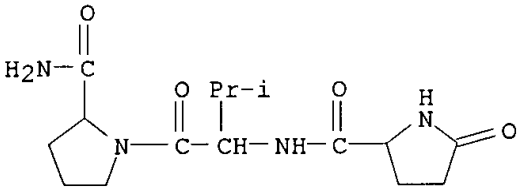
=> s l3 sss full
FULL SEARCH INITIATED 16:50:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4645 TO ITERATE

100.0% PROCESSED 4645 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L4 6 SEA SSS FUL L3

=> d 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

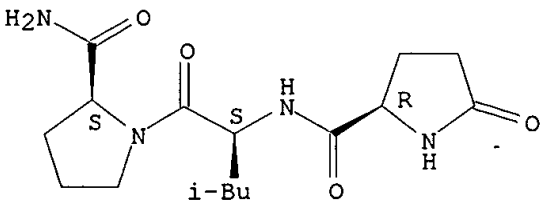
L4 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 138372-79-9 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-L-valyl-, labeled with tritium (9CI) (CA INDEX NAME)
MF C15 H24 N4 O4
SR CA
LC STN Files: CA, CAPLUS
IL XH-3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 78664-76-3 REGISTRY
CN L-Prolinamide, 5-oxo-D-prolyl-L-leucyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H26 N4 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

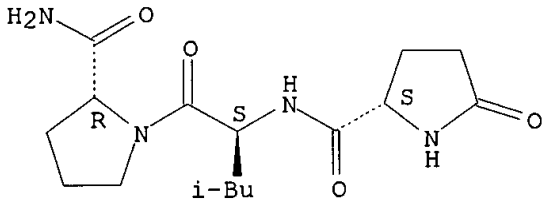


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 78664-40-1 REGISTRY
CN D-Prolinamide, 5-oxo-L-prolyl-L-leucyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H26 N4 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

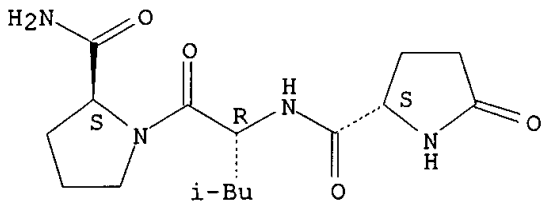


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 78058-30-7 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-D-leucyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H26 N4 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



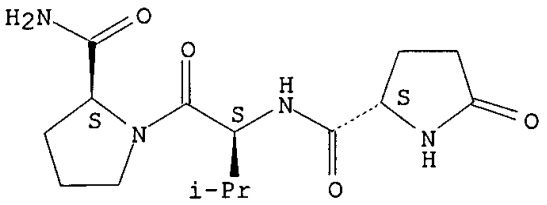
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 78058-07-8 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-L-valyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3: PN: US20020151502 SEQID: 3 claimed sequence
FS STEREOSEARCH
MF C15 H24 N4 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.

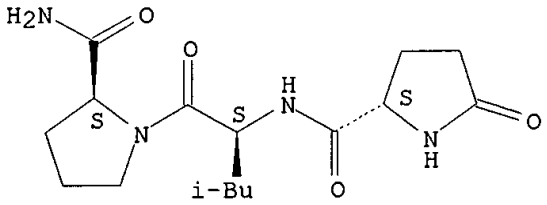


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)
16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 49760-92-1 REGISTRY
CN L-Prolinamide, 5-oxo-L-prolyl-L-leucyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: US20020151502 SEQID: 1 claimed sequence
CN 2-Leucine-thyrotropin-releasing factor
CN 2-Leucine-TRH
CN Pyroglutamylleucylprolinamide
FS STEREOSEARCH
MF C16 H26 N4 O4
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

22 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
22 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 24305-27-9, Thyrotropin-releasing hormone **49760-92-1**
155738-74-2
RL: PAC (Pharmacological activity); BIOL (Biological study)
(acetylcholine of hippocampus in neuropharmacodynamic evaluation of centrally active TRH analog and its chem. brain-targeting system)

L5 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:666181 CAPLUS
DN 138:314306
TI Cocaine regulates TRH-related peptides in rat brain
AU Eugene Pekary, A.; Senanayake, Shayani; Sattin, Albert
CS Research Services, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Neurochemistry International (2002), 41(6), 415-428
CODEN: NEUIDS; ISSN: 0197-0186
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 50-36-2, Cocaine 24305-27-9 34783-35-2 35703-20-9 **49760-92-1**
78058-07-8 85541-78-2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cocaine regulates TRH-related peptides in rat brain)

L5 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:510938 CAPLUS
DN 138:163669
TI Pharmacologically distinct binding sites in rat brain for [3H]thyrotropin-releasing hormone (TRH) and [3H][3-methyl-histidine2]TRH
AU Kelly, Julie A.; Slator, Gillian R.; O'Boyle, Kathy M.
CS Department of Biochemistry, Trinity College, Dublin, 2, Ire.
SO Biochemical Pharmacology (2002), 63(12), 2197-2206
CODEN: BCPCA6; ISSN: 0006-2952
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 24305-27-9, TSH-releasing hormone 32467-84-8 32467-85-9 34367-55-0
34783-35-2, Phe2-TRH 35703-19-6 42294-01-9 42390-94-3
49760-92-1 52968-38-4 60063-88-9, TRH-degrading ectoenzyme
63155-77-1 67901-31-9 70650-88-3 78058-02-3 78058-04-5
78058-07-8 78058-24-9 85541-77-1 85541-78-2 141565-13-1
291752-42-6 291752-44-8 291752-45-9 473809-90-4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TRH and [methylhistidine]TRH distinct pharmacol. binding sites in rat brain and structure-activity relations therein)

L5 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:299863 CAPLUS
DN 137:135197
TI Role of TRH receptors as possible mediators of analeptic actions of TRH-like peptides
AU Hinkle, Patricia M.; Pekary, A. Eugene; Senanayaki, Shayani; Sattin, Albert
CS Department of Pharmacology and Physiology, University of Rochester School of Medicine and Dentistry, Rochester, NY, 14642, USA
SO Brain Research (2002), 935(1,2), 59-64
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Science B.V.

DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 32467-85-9 34783-35-2, Phe2-TRH **49760-92-1** 63155-77-1
70650-88-3 **78058-07-8** 78058-24-9 85541-78-2 141565-13-1
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(role of TRH receptors as possible mediators of analeptic actions of TRH-like peptides)

L5 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:154496 CAPLUS
DN 137:252804
TI Effect of 2-hydroxypropyl-.beta.-cyclodextrin on the solubility, stability, and pharmacological activity of the chemical delivery system of TRH analogs
AU Wu, W. M.; Wu, J.; Bodor, N.
CS Center for Drug Discovery, University of Florida, Gainesville, FL, USA
SO Pharmazie (2002), 57(2), 130-134
CODEN: PHARAT; ISSN: 0031-7144
PB Govi-Verlag Pharmazeutischer Verlag GmbH
DT Journal
LA English
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9D, Trh, conjugated analogs **49760-92-1D**, conjugate
78058-02-3D, conjugate 155738-74-2 245412-26-4 245412-30-0
460315-05-3D, conjugate
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PKT (Pharmacokinetics); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(effect of hydroxypropyl cyclodextrin on soly., stability, and pharmacol. activity of chem. delivery system of TRH analogs)

L5 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:618021 CAPLUS
DN 135:175414
TI TRH-like peptide derivatives as inhibitors of the TRH-degrading ectoenzyme
IN Kelly, Julie A.
PA The Provost, Fellows and Scholars of the College of the Holy and Undivided Trinity of Queen Elizabeth near Dublin, Ire.
SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001060843	A1	20010823	WO 2001-IE27	20010216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001034027	A5	20010827	AU 2001-34027	20010216
EP 1261624	A1	20021204	EP 2001-906065	20010216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2003166944 A1 20030904 US 2002-223590 20020819
PRAI IE 2000-135 A 20000217
IE 2000-240 A 20000330
WO 2001-IE27 W 20010216
OS MARPAT 135:175414
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24769-58-2P 32467-84-8P 32467-85-9P 34783-35-2P 35259-10-0P
35703-19-6P 35703-20-9P 42294-01-9P 42390-94-3P **49760-92-1P**
52968-38-4P 63155-77-1P 67901-31-9P 78058-02-3P 78058-04-5P
78058-07-8P 78058-11-4P 78058-24-9P 85541-77-1P
85541-78-2P 141565-13-1P 291752-42-6P 291752-43-7P 291752-44-8P
291752-45-9P 291752-46-0P 355802-97-0P 355802-98-1P 355802-99-2P
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355803-15-5P 355803-16-6P 355803-17-7P 355803-18-8P 355803-19-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthetic peptides for inhibition of TSH-releasing hormone degrading ectoenzyme and therapeutic use of)

L5 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:504981 CAPLUS
DN 135:221461
TI Regulation of TRH and TRH-related peptides in rat brain by thyroid and steroid hormones
AU Pekary, A. E.; Sattin, A.
CS Research Services, VA Greater Los Angeles Healthcare System, Los Angeles, CA, 90073, USA
SO Peptides (New York, NY, United States) (2001), 22(7), 1161-1173
CODEN: PPTDD5; ISSN: 0196-9781
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 9002-71-5, Thyrotropin 9002-71-5D, Thyrotropin, derivs. 34783-35-2, Phe2-TRH 70650-88-3 **78058-07-8**, L-Prolinamide, 5-oxo-L-prolyl-L-valyl **78058-30-7**, L-Prolinamide, 5-oxo-L-prolyl-D-leucyl 85541-78-2
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(TRH and TRH-related peptides in rat brain regulation by thyroid and steroid hormones)

L5 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:394499 CAPLUS
DN 133:219335
TI Kinetic investigation of the specificity of porcine brain thyrotropin-releasing hormone-degrading ectoenzyme for thyrotropin-releasing hormone-like peptides
AU Kelly, Julie A.; Slator, Gillian R.; Tipton, Keith F.; Williams, Carvell H.; Bauer, Karl
CS Department of Biochemistry, Trinity College Dublin, Dublin, 2, Ire.
SO Journal of Biological Chemistry (2000), 275(22), 16746-16751
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 32467-84-8 32467-85-9 35259-10-0 42390-94-3 **49760-92-1**
63155-77-1 78058-02-3 **78058-07-8** 78058-11-4 78058-24-9
291752-42-6
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(kinetic investigation of the specificity of porcine brain TSH-releasing hormone-degrading ectoenzyme for TSH-releasing hormone-like peptides)

L5 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:27114 CAPLUS
DN 132:161364
TI TRH-R2 Exhibits Similar Binding and Acute Signaling but Distinct Regulation and Anatomic Distribution Compared with TRH-R1
AU O'Dowd, Brian F.; Lee, Dennis K.; Huang, Wei; Nguyen, Tuan; Cheng, Regina; Liu, Yang; Wang, Bing; Gershengorn, Marvin C.; George, Susan R.
CS Department of Pharmacology, University of Toronto, Toronto, ON, M5S 1A8, Can.
SO Molecular Endocrinology (2000), 14(1), 183-193
CODEN: MOENEN; ISSN: 0888-8809
PB Endocrine Society
DT Journal
LA English
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9, TRH 35048-63-6 37553-43-8 41880-59-5 **78058-07-8**
78058-20-5 85344-77-0 131404-29-0 258282-47-2 258282-48-3
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(rat TRH-R2 receptor sequence and signaling pharmacol. characterization and tissue distribution)

L5 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:655303 CAPLUS
DN 132:15529
TI Metabolism-Based Brain-Targeting System for a Thyrotropin-Releasing Hormone Analogue
AU Prokai, Laszlo; Prokai-Tatrai, Katalin; Ouyang, Xudong; Kim, Ho-Seung; Wu, Whei-Mei; Zharikova, Alevtina; Bodor, Nicholas
CS Center for Drug Discovery College of Pharmacy, University of Florida, Gainesville, FL, 32610-0497, USA
SO Journal of Medicinal Chemistry (1999), 42(22), 4563-4571
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT **49760-92-1P** 251357-88-7P 251357-89-8P 251357-90-1P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(prodrugs for brain targeting of TSH-releasing hormone)

L5 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:396772 CAPLUS
DN 131:276891
TI Brain delivery and targeting of thyrotropin-releasing hormone analogs by covalent packaging and sequential metabolism
AU Prokai, Laszlo; Prokai-Tatrai, Katalin; Wu, Whei-Mei; Wu, Jiaxiang;

Ouyang, Xudong; Kim, Ho-Seung; Zharikova, Alevtina; Simpkins, James; Bodor, Nicholas
CS Center for Drug Discovery, College of Pharmacy, University of Florida, Gainesville, FL, 32610-0497, USA
SO Peptides: Frontiers of Peptide Science, Proceedings of the American Peptide Symposium, 15th, Nashville, June 14-19, 1997 (1999), Meeting Date 1997, 834-836. Editor(s): Tam, James P.; Kaumaya, Pravin T. P. Publisher: Kluwer, Dordrecht, Neth.
CODEN: 67UCAR
DT Conference
LA English
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT **49760-92-1** 155738-74-2 245412-26-4 245412-30-0
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(brain delivery and targeting of TRH analogs by covalent packaging and sequential metab.)

L5 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:814727 CAPLUS
DN 130:139627
TI Synthesis and behavioral evaluation of a chemical brain-targeting system for a thyrotropin-releasing hormone analog
AU Prokai, Laszlo; Ouyanga, Xudong; Prokai-Tatrai, Katalin; Simpkins, James W.; Bodor, Nicholas
CS Center for Drug Discovery, College of Pharmacy, University of Florida, Gainesville, FL, 32610, USA
SO European Journal of Medicinal Chemistry (1998), 33(11), 879-886
CODEN: EJMCA5; ISSN: 0223-5234
PB Editions Scientifiques et Medicales Elsevier
DT Journal
LA English
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT **49760-92-1P** 155738-74-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and behavioral evaluation of chem. brain-targeting system for TSH-releasing hormone analog)

L5 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:485826 CAPLUS
DN 129:200713
TI Cloning and characterization of the chicken thyrotropin-releasing hormone receptor
AU Sun, Yuh-Man; Millar, Robert P.; Ho, Hao; Gershengorn, Marvin C.; Illing, Nicola
CS Medical Research Council/Univ. Cape Town Research Unit Molecular Reproductive Endocrinology, Univ. Cape Town, Observatory, 7925, S. Afr.
SO Endocrinology (1998), 139(8), 3390-3398
CODEN: ENDOAO; ISSN: 0013-7227
PB Endocrine Society
DT Journal
LA English
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 24305-27-9, TRH 34783-35-2, Phe2-TRH 38983-06-1 **78058-07-8** 131486-26-5
RL: BAC (Biological activity or effector, except adverse); BPR (Biological

process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(cloning and characterization of chicken TRH receptor)

L5 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:319039 CAPLUS
DN 125:1597
TI A Refined Model of the Thyrotropin-Releasing Hormone (TRH) Receptor Binding Pocket. Experimental Analysis and Energy Minimization of the Complex between TRH and TRH Receptor
AU Perlman, Jeffrey H.; Laakkonen, Liisa J.; Guarnieri, Frank; Osman, Roman; Gershengorn, Marvin C.
CS Medical College, Cornell University, New York, NY, 10021, USA
SO Biochemistry (1996), 35(24), 7643-7650
CODEN: BICHAW; ISSN: 0006-2960
PB American Chemical Society
DT Journal
LA English
IT 24305-27-9, TRH 34367-54-9, N-.tau.-Methylhistidyl-TRH 34783-35-2, [Phe2]TRH 35048-63-6 **78058-07-8**, L-Prolinamide, 5-oxo-L-prolyl-L-valyl-
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(a refined model of the TRH receptor binding pocket)

L5 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:192305 CAPLUS
DN 120:192305
TI Method for preparation of amino acid thiohydantoins either in isolation or as the C-terminal of peptides
IN Inglis, Adam; Tseng, Albert Peng Sheng; Adams, Peter Laurence
PA Garvan Institute of Medica Research, Australia
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9319082	A1	19930930	WO 1993-AU126	19930325
	W: AU, CA, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9337412	A1	19931021	AU 1993-37412	19930325
	AU 661138	B2	19950713		
	EP 635024	A1	19950125	EP 1993-906392	19930325
	R: CH, DE, FR, GB, IT, LI, SE				
	US 5756667	A	19980526	US 1994-307687	19940923
PRAI	AU 1992-1520		19920325		
	AU 1992-4798		19920917		
	WO 1993-AU126		19930325		

IT **49760-92-1**, Pyroglutamylleucylprolinamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(sequencing of, C-terminal via thiohydantoin formation)

L5 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:463105 CAPLUS
DN 117:63105
TI Methods used in the study of TRH-like peptides in rat prostate
AU Bilek, R.; Gkonos, P. J.; Tavianini, M. A.; Smyth, D. G.; Roos, B. A.
CS Lab. Peptide Chem., Natl. Inst. Med. Res., London, NW7 1AA, UK
SO Journal of Pharmaceutical and Biomedical Analysis (1991), 9(10-12), 1185-9
CODEN: JPBADA; ISSN: 0731-7085

DT Journal
LA English
IT 34783-35-2 **78058-07-8** 142518-75-0
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, in prostate, methods for)

L5 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:42029 CAPLUS
DN 116:42029
TI Synthesis of tritium-labeled TRH-like peptides using asymmetric anhydride coupling
AU Bilek, R.; Bradbury, A. F.; Smyth, D. G.
CS Lab. Pept. Chem., Natl. Inst. Med. Res., London, NW7 1AA, UK
SO Journal of Labelled Compounds and Radiopharmaceuticals (1991), 29(10), 1099-105
CODEN: JLCRD4; ISSN: 0362-4803
DT Journal
LA English
IT 138372-78-8P **138372-79-9P** 138372-80-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L5 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:490595 CAPLUS
DN 111:90595
TI First pharmacological characterization of TRH receptors linked to phosphoinositide hydrolysis in GH3 pituitary cells using agonist specificity of eight TRH analogs
AU Sharif, N. A.; To, Z.; Whiting, R. L.
CS Inst. Exp. Pharmacol., Syntex Res., Palo Alto, CA, 94303, USA
SO Biochemical and Biophysical Research Communications (1989), 161(3), 1306-11
CODEN: BBRCA9; ISSN: 0006-291X
DT Journal
LA English
IT 24305-27-9D, TRH, analogs 24769-58-2, TRH free acid 38983-06-1
41880-59-5 62305-86-6, CG3509 62305-91-3, CG3703 66537-55-1, MK-771
76820-40-1, RX77368 **78058-07-8**
RL: BIOL (Biological study)
(phosphoinositide hydrolysis by pituitary gland stimulation by, receptor mediation of)

L5 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:206106 CAPLUS
DN 110:206106
TI TRH analog administration increases endogenous TRH levels in the central nervous system
AU Prasad, Chandan; Eloby-Childress, Sandra; Iriuchijima, Tokuji; Wilber, John F.; Szirtes, Tamas; Kisfaludy, Lajos
CS Med. Cent., Louisiana State Univ., New Orleans, LA, 70112, USA
SO Neuroendocrinology (1989), 49(2), 219-22
CODEN: NUNDAJ; ISSN: 0028-3835
DT Journal
LA English
IT 78058-04-5 78664-61-6 **78664-76-3** 85146-12-9
RL: BIOL (Biological study)
(TRH of brain and spinal cord after oral administration of)

L5 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:8652 CAPLUS
DN 110:8652
TI Theoretical conformational analysis of thyroliberin analogs

AU Akhrem, A. A.; Golubovich, V. P.; Martinovich, V. P.; Slobodchikova, L. K.
CS Inst. Bioorg. Khim., USSR
SO Vestsi Akademii Navuk BSSR, Seryya Khimichnykh Navuk (1988), (2), 85-90
CODEN: VBSKAK; ISSN: 0002-3590
DT Journal
LA Russian
IT 24305-27-9D, Thyroliberin, analogs 24769-58-2 27058-73-7 32467-85-9
34783-35-2 37553-43-8 41880-59-5 42294-01-9 42390-94-3
49760-92-1 52208-06-7 63155-77-1 78058-04-5
78058-07-8 78058-24-9 117787-92-5
RL: PROC (Process)
(theor. conformational anal. of)

L5 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1985:179604 CAPLUS
DN 102:179604
TI Antagonism by gamma-hydroxybutyric acid (GHB) of the TRH and Leu-2-TRH induced tremor
AU Erdo, Sandor L.; Palosi, Eva
CS Pharmacol. Res. Cent., Chem. Works Gedeon Richter Ltd., Budapest, H-1475, Hung.
SO Neuropept. Psychosom. Processes, Int. Conf. Integr. Neurohumoral Mech. (1983), Meeting Date 1982, 201-8. Editor(s): Endroczi, Elember. Publisher: Akad. Kiado, Budapest, Hung.
CODEN: 53HNAO
DT Conference
LA English
AB GHB [591-81-1] antagonized the tremorogenic effect of TRH [24305-27-9] and 2-leucine-TRH [**49760-92-1**] in mice and only slightly reduced the release of 3H-labeled dopamine (DA) [51-61-6] from synaptosomes induced by these peptides. The behavioral antagonism of GHB may thus not be related to DA release. Precursors of biogenic amines L-DOPA [59-92-7] and 5-HTP [56-69-9] increased the tremors induced by the peptides. The tremors were also potentiated by physostigmine inhibition of cholinesterase [9001-08-5] and atropine blockade of acetylcholine receptors. Picrotoxin, a GABAergic receptor antagonist, potentiated the tremorogenic action of TRH. Thus, the involvement of other neurotransmitter systems in TRH-induced tremors is indicated.
IT 24305-27-9 **49760-92-1**
RL: BIOL (Biological study)
(convulsions from, .gamma.-hydroxybutyrate antagonism of, neurotransmitters in relation to)

L5 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1984:210396 CAPLUS
DN 100:210396
TI Synthesis of thyrotropin-releasing hormone analogs. 1. Complete dissociation of central nervous system effects from thyrotropin-releasing activity
AU Szirtes, Tamas; Kisfaludy, Lajos; Palosi, Eva; Szporny, Laszlo
CS Chem. Works Gedeon Richter, Ltd., Budapest, H-1475, Hung.
SO Journal of Medicinal Chemistry (1984), 27(6), 741-5
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
IT 34783-35-2P 35259-10-0P 42294-01-9P 42390-94-3P **49760-92-1P**
49760-98-7P 78057-99-5P 78058-02-3P 78058-04-5P **78058-07-8P**
78058-11-4P 78058-13-6P 78058-16-9P 78058-20-5P 78058-24-9P
78058-30-7P 78058-34-1P 78058-37-4P 78058-38-5P
78082-31-2P **78664-40-1P** **78664-76-3P** 85146-12-9P
88888-73-7P
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and central nervous system and hormonal activities of)

L5 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:107734 CAPLUS
DN 98:107734
TI Electron impact and methane, isobutane, and ammonia chemical ionization mass spectra of peptide amides related to melanostatin
AU Bjoerkman, Sven
CS Psychiatr. Res. Cent., Ulleraaker Hosp., Uppsala, S-750 17, Swed.
SO Biomedical Mass Spectrometry (1982), 9(8), 315-22
CODEN: BMSYAL; ISSN: 0306-042X
DT Journal
LA English
IT 2002-44-0 39705-61-8 47357-38-0 **49760-92-1** 57836-06-3
61798-79-6 61798-84-3 62029-72-5 65416-52-6 71034-33-8
71034-35-0 71034-39-4
RL: PRP (Properties)
(electron-impact and chem.-ionization mass spectrum of)

L5 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1981:604439 CAPLUS
DN 95:204439
TI Peptide amides and pharmaceutical composition containing them
IN Kisfaludy, Lajos; Szirtes, Tamas; Balaspiri, Lajos; Palosi, Eva; Szporny, Laszlo; Sarkadi, Adam
PA Richter, Gedeon, Vegyeszeti Gyar Rt., Hung.
SO Ger. Offen., 80 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3024256	A1	19810108	DE 1980-3024256	19800627
	DE 3024256	C2	19910124		
	HU 23606	O	19820928	HU 1979-RI718	19790628
	HU 180926	B	19830530		
	SE 8004745	A	19801229	SE 1980-4745	19800626
	SE 447389	B	19861110		
	SE 447389	C	19870219		
	DK 8002745	A	19801229	DK 1980-2745	19800626
	DK 149610	B	19860811		
	DK 149610	C	19870504		
	BE 884015	A1	19801229	BE 1980-9867	19800626
	FR 2460291	A1	19810123	FR 1980-14194	19800626
	FR 2460291	B1	19841123		
	JP 56008354	A2	19810128	JP 1980-87236	19800626
	JP 01059278	B4	19891215		
	DD 151745	C	19811104	DD 1980-222174	19800626
	SU 1085505	A3	19840407	SU 1980-2940703	19800626
	IL 60406	A1	19841031	IL 1980-60406	19800626
	AT 8003347	A	19850915	AT 1980-3347	19800626
	AT 380259	B	19860512		
	CS 241028	B2	19860313	CS 1980-4583	19800626
	FI 8002058	A	19801229	FI 1980-2058	19800627
	FI 73224	B	19870529		
	FI 73224	C	19870910		
	NL 8003766	A	19801230	NL 1980-3766	19800627
	NL 192575	B	19970602		
	NL 192575	C	19971003		
	AU 8059720	A	19810108	AU 1980-59720	19800627
	AU 8059720	A1	19810108		

	AU 538621	B2	19840823		
	GB 2058079	A	19810408	GB 1980-21110	19800627
	GB 2058079	B2	19830302		
	PL 123822	B1	19821130	PL 1980-225269	19800627
	US 4386073	A	19830531	US 1980-163830	19800627
	CA 1188296	A1	19850604	CA 1980-354997	19800627
	CH 650519	A	19850731	CH 1980-4956	19800627
PRAI	HU 1979-RI718		19790628		

IT 78664-37-6P **78664-40-1P** 78664-44-5P 78664-49-0P
78664-53-6P 78664-59-2P 78664-61-6P 78664-65-0P 78664-71-8P
78664-73-0P 78664-74-1P **78664-76-3P** 78664-79-6P
78664-80-9P 78664-81-0P 78664-87-6P 78685-15-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and central nervous system activity of)

L5 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1981:425645 CAPLUS
DN 95:25645
TI Tripeptide amides and pharmaceutical compositions containing them
IN Kisfaludy, Lajos; Szirtes, Tamas; Balaspiri, Lajos; Palosi, Eva; Szporny, Laszlo; Sarkadi, Adam
PA Richter, Gedeon, Vegyeszeti Gyar Rt., Hung.
SO Ger. Offen., 82 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3024313	A1	19810129	DE 1980-3024313	19800627
	DE 3024313	C2	19910529		
	HU 23605	O	19820928	HU 1979-RI717	19790628
	HU 180925	B	19830530		
	SE 8004744	A	19801229	SE 1980-4744	19800626
	SE 447261	B	19861103		
	SE 447261	C	19870212		
	DK 8002746	A	19801229	DK 1980-2746	19800626
	DK 149611	B	19860811		
	DK 149611	C	19870126		
	BE 884014	A1	19801229	BE 1980-9866	19800626
	FR 2460292	A1	19810123	FR 1980-14195	19800626
	FR 2460292	B1	19831118		
	JP 56036442	A2	19810409	JP 1980-87237	19800626
	DD 151746	C	19811104	DD 1980-222175	19800626
	SU 963463	A3	19820930	SU 1980-2938611	19800626
	AT 8003346	A	19830615	AT 1980-3346	19800626
	AT 373578	B	19840210		
	IL 60407	A1	19841130	IL 1980-60407	19800626
	CS 239907	B2	19860116	CS 1980-4584	19800626
	FI 8002057	A	19801229	FI 1980-2057	19800627
	FI 74473	B	19871030		
	FI 74473	C	19880208		
	NL 8003767	A	19801230	NL 1980-3767	19800627
	AU 8059719	A1	19810108	AU 1980-59719	19800627
	AU 538100	B2	19840726		
	GB 2058080	A	19810408	GB 1980-21111	19800627
	GB 2058080	B2	19830223		
	US 4299821	A	19811110	US 1980-163829	19800627
	CA 1151154	A1	19830802	CA 1980-355000	19800627
	PL 127100	B1	19830930	PL 1980-225268	19800627

CH 650518 A 19850731 CH 1980-4955 19800627
AT 8302432 A 19901015 AT 1983-2432 19830704
AT 392644 B 19910510
PRAI HU 1979-RI717 19790628
AT 1980-3346 19800626
IT 78058-04-5P **78058-07-8P** 78058-11-4P 78058-16-9P
78058-20-5P 78058-24-9P **78058-30-7P** 78058-37-4P
78058-38-5P 78082-31-2P 78088-52-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L5 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:468950 CAPLUS
DN 91:68950
TI A comparison of central and hormonal effects of peptides related to thyroliberin (TRH) and melanostatin (MIF)
AU Bjoerkman, Sven; Karlsson, Jan Anders; Sievertsson, Hans
CS Biomed. Cent., Univ. Uppsala, Uppsala, S-751 23, Swed.
SO Acta Pharmaceutica Suecica (1979), 16(2), 95-102
CODEN: APSXAS; ISSN: 0001-6675
DT Journal
LA English
IT 2002-44-0 22365-00-0 24305-27-9 27058-69-1 34367-55-0 34783-35-2
38982-99-9 41880-59-5 42294-01-9 **49760-92-1** 52968-38-4
52968-39-5 61798-79-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(nervous system response to, TSH release in relation to)

L5 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:527821 CAPLUS
DN 83:127821
TI Conformational analysis by NMR of an analog of thyrotropin releasing factor, the tripeptide Glu-Leu-Pro-A
AU Bellocq, A. M.; Dubien, M.; Dupart, E.
CS Cent. Rech. Paul Pascal, Talence, Fr.
SO Biochemical and Biophysical Research Communications (1975), 65(4), 1393-9
CODEN: BBRCA9; ISSN: 0006-291X
DT Journal
LA English
IT **49760-92-1**
RL: PRP (Properties)
(conformation of)

L5 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:438027 CAPLUS
DN 83:38027
TI Conformation of thyrotropin releasing hormone
AU Stevertsson, Hans; Castensson, Staffan
CS Fac. Pharm., Univ. Uppsala, Uppsala, Swed.
SO FEBS Letters (1974), 42(3), 340-2
CODEN: FEBLAL; ISSN: 0014-5793
DT Journal
LA English
AB Four analogs of synthetic thyrotropin-releasing hormone (TRH) [24305-27-9], pyro-Glu-Leu-Pro-NH2 (I) [**49760-92-1**], pyro-Glu-Leu-Pro-OCH3 (II) [49760-98-7], pyro-Glu-.beta.-(2-thienyl)-L-alanine -Pro-NH3 (III) [52968-38-4], and pyro-Glu-Thi-Pro-OCH3 (IV) [52968-39-5], when tested in vivo for biol. activity showed that I had 2% of the activity of TRH, III had 30%, and II and IV were inactive. In vitro, III had as much as 77% of the activity of TRH while I had 3% and II and IV were inactive. Since I and III are potent analogs of TRH, this

suggests that for hormonal activity the side chain in position two is not confined to a single conformation due to a side chain backbone interaction.

IT 24305-27-9 **49760-92-1** 49760-98-7 52968-38-4 52968-39-5
RL: BIOL (Biological study)
(TSH release by)

L5 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:38832 CAPLUS
DN 82:38832
TI Inhibition of oxotremorine-induced tremor by a melanocyte-stimulating hormone release-inhibiting factor, thyrotropin-releasing hormone, and related peptides
AU Castensson, Staffan; Sievertsson, Hans; Lindeke, Bjorn; Sum, Check Y.
CS Fac. Pharm., Univ. Uppsala, Uppsala, Swed.
SO FEBS Letters (1974), 44(1), 101-5
CODEN: FEBLAL; ISSN: 0014-5793
DT Journal
LA English
AB Synthetic MSH release-inhibiting factor (MIF) (Pro-Leu-gly-NH2) [2002-44-0] (105 .mu.moles/kg) inhibited the parkinsonian tremor induced by oxotremorine [70-22-4] in mice, but replacing the proline moiety in MIF with pyroglutamic acid produced a peptide, pyroGlu-Leu-Gly-NH2 [39705-61-8], which was almost twice as potent as MIF. TSH-releasing factor (TRH)(pyro-Glu-His-Pro-NH2) [24305-27-9] and its 2 analogs, 2-Leu-TRH [**49760-92-1**] and 2-Gly-TRH [42294-01-9], were completely inactive whereas 2-Thi-TRH [52968-38-4] (Thi = (.beta.-thienyl)-alanine) was about 5 times as potent as MIF. Further evaluation of MIF or other related peptides may suggest beneficial effects in the treatment of parkinsonian patients.
IT 2002-44-0 24305-27-9 29573-76-0 39705-61-8 42294-01-9
49760-92-1 52968-38-4
RL: BIOL (Biological study)
(tremor inhibition by, oxotremorine-induced)

L5 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1973:546838 CAPLUS
DN 79:146838
TI Synthesis of analogs of the thyrotropin releasing hormone (TRH) and bioassays for TRH and TRH-inhibiting activities
AU Sievertsson, Hans; Castensson, Staffan; Bowers, Cyril Y.; Friesen, H. G.; Folkers, Karl.
CS Fac. Pharm., Univ. Uppsala, Uppsala, Swed.
SO Acta Pharmaceutica Suecica (1973), 10(4), 297-308
CODEN: APSXAS; ISSN: 0001-6675
DT Journal
LA English
IT 42294-01-9P 49760-90-9P **49760-92-1P** 49760-93-2P
49760-94-3P 49760-95-4P 49760-96-5P 49760-97-6P 49760-98-7P
49760-99-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hormonal activity of)

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